PATENT   Atty Docket No.: 10010485-2
                                              App. Ser. No.: 09/994,635

IN THE CLAIMS:

Please find below a listing of all of the pending claims. The statuses of the claims are set forth in parentheses.

1. (Currently Amended) A computer readable medium on which is embedded a computer program, the computer program comprising:

accessing a remote registry storing a list of description files, each description file being customized for a particular service provided by a computer and describes a pattern of message exchanges expected to be followed and documents types expected to be used for communicating with the computer to utilize the service;

identifying a description file from the list of description files corresponding to a desired service, wherein a service provider providing the desired service published the description file for the desired service in the remote registry;

retrieving an identification of the description file, a location of the description file or the description file from the remote registry,

wherein the description file includes

a plurality of interactions describing a plurality of messages to be received and/or transmitted to use the desired service; and

at least one transition identifying the order of executing said plurality of interactions,

the at least one transition including a source interaction of said plurality of interactions and a destination interaction of said plurality of interactions,

said source interaction being executed prior to said destination interaction,

2

PATENT

said source interaction specifying a document type to be used in the source

interaction; ~~and~~

using the desired service by directly exchanging messages with the service provider

providing the desired service, wherein the messages are described in the plurality of

interactions in the description file, and the message exchanging is in the order specified in the

at least one transition, and executing the source interaction of the plurality of interactions

comprises determining whether a document is an instance of the document type to be used in

the source interaction; and executing the source interaction in response to the document being

an instance of the document type.

2. (Original) The computer program of claim 1, wherein each of said plurality of interactions

describes transmitting a message of said plurality of messages and/or receiving a message of

said plurality of messages.

3. (Original) The computer program of claim 2, wherein at least one interaction of said

plurality of interactions is configured to select one message to be received or transmitted

from a set of messages, said set of messages being included in said plurality of messages.

4. (Original) The computer program of claim 3, wherein said plurality of messages are XML

documents.

5. (Canceled)

PATENT

6. (Previously Presented) The computer program of claim 1, wherein said at least one

transition includes a triggering message of said plurality of messages, said triggering message

invoking execution of said source interaction.

7. (Canceled)

8. (Previously Presented) The computer program of claim 1, wherein said at least one

transition includes a default transition, said source interaction being executed when a

message included in said source interaction that does not otherwise have a defined transition

is received.

9. (Original) The computer program of claim 1, wherein said plurality of interactions describe

a plurality of message types for said plurality of messages.

10. (Original) The computer program of claim 9, wherein said message types are schemas.

11. (Original) The computer program of claim 10, wherein said schemas are XML schemas.

12. (Original) The computer program of claim 11, wherein said plurality of interactions

include a location or a unique name for said XML schema.

13. (Original) The computer program of claim 12, wherein said location or said unique name

includes a URL or a URN.

4

PATENT

14. (Currently Amended) A computer comprising:

a conversation controller generated from a description file,

wherein the computer is operable to

access a <u>remote</u> registry storing a list of description files, each

description file being customized for a particular service provided by a

computer and describes a pattern of message exchanges expected to be

followed and documents types expected to be used for communicating with

the computer providing the service to utilize the service;

identify the description file from the list of description files

corresponding to a desired service, <u>wherein a service provider providing the</u>

<u>desired service published the description file for the desired service in the</u>

<u>remote registry;</u> and

retrieve an identification of the description file, a location of the

description file or the description file from the <u>remote</u> registry; <u>and</u>

<u>using the desired service by directly exchanging messages with the</u>

<u>service provider providing the desired service, wherein the messages</u>

<u>exchanged include the pattern of message exchanges expected to be followed</u>

<u>and documents types expected to be used as described in the description file</u>

<u>for the desired service,</u>

said conversation controller being operable to perform a sequence of interactions

described in said description file,

said sequence of interactions includes at least one of receiving messages and

transmitting messages; and

5

PATENT

said description file including a document type for each interaction, the document

type specifying a document to be used in the interaction,

wherein said conversation controller is operable to determine whether a document is

an instance of a document type for an interaction of said interactions and is operable to

execute the interaction in response to the document being the instance of the document type

for the interaction.

15. (Original) The computer of claim 14, wherein at least one interaction of said sequence of

interactions is configured to select one message to be received or transmitted from a set of

messages.

16. (Original) The computer of claim 14, wherein said messages are XML documents.

17. (Original) The computer of claim 14, further comprising at least one transition describing

said sequence of interactions, said at least one transition including a source interaction of said

interactions and a destination interaction of said interactions, said source interaction being

executed prior to said destination interaction.

18. (Original) The computer program of claim 17, wherein said at least one transition

includes a triggering message of said messages, said triggering message invoking execution

of said source interaction.

19. (Currently Amended) A computer comprising:

a web service,

wherein said computer is connected to a <u>remote</u> registry storing a plurality of description files, each description file being customized for a particular service provided by a computer and describes a pattern of message exchanges expected to be followed and documents types expected to be used for communicating with the computer providing the service to utilize the service,

said computer comprising the web service configured to

access the <u>remote</u> registry; and

publish a description file in the <u>remote</u> registry, wherein the description file describes a pattern of message exchanges expected to be followed and documents types expected to be used for communicating with the computer to utilize the web service;

said computer comprising the web service configured to communicate <u>directly</u> with another computer <u>that retrieved the description from the remote registry and is using the</u> <u>retrieved description file to use the web service provided by said computer</u> ~~based on~~ <u>by</u> <u>performing</u> a plurality of interactions described in the description file,

said plurality of interactions describing at least one of a message type to be received and a message type to be transmitted to said another computer to facilitate said web service,

wherein the message type to be received or the message type to be transmitted includes attributes describing data in a message that corresponds to the message type.

7

PATENT   ·   Atty Docket No.: 10010485-2
                                              App. Ser. No.: 09/994,635

20. (Original) The computer of claim 19, wherein said description file includes at least one

transition describing at least one sequence for executing one or more of said plurality of

interactions.

21. (Canceled).

22. (Previously Presented) The computer of claim 20, wherein said another computer

communicating with the computer comprising the web service based on the plurality of

interactions described in the description file retrieves said description file including said at

least one transition and transmits and receives messages to said computer based on said

description file including said at least one transition to utilize said web service provided by

said computer.

23-24. (Canceled).

25. (Previously Presented) The computer of claim 19, wherein each of said plurality of

description files are identified by a URN.

26. (Previously Presented) The computer of claim 19, wherein said message type to be

received or transmitted comprises a description of an XML document.

27. (Canceled).

PATENT   Atty Docket No.: 10010485-2
                                                    App. Ser. No.: 09/994,635

28. (Previously Presented) The computer of claim 14, wherein said conversation controller is

operable to generate an error message in response to the document not being the instance of

the document type.

29. (Previously Presented) The computer of claim 28, wherein an interaction error message in

response to the document not being the instance of the document type is provided in the

description file.

9